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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/897,465

DATE: 07/24/2001
TIME: 10:43:29

Input Set : A:\2314-146.app
Output Set: N:\CRF3\07242001\1897465.raw

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3 <110> APPLICANT:: Olivera, Baldomero M.
4 McIntosh, J. Michael
5 Yoshikami, Doju
6 Cartier, G. Edward
7 Luo, Siqin
8 University of Utah Research Foundation
10 <120> TITLE OF INVENTION: Uses of Alpha-Conotoxin Peptides
12 <130> FILE REFERENCE: Uses of Alpha-Conotoxins
C--> 14 <140> CURRENT APPLICATION NUMBER: US/09/897,465
C--> 15 <141> CURRENT FILING DATE: 2001-07-03
17 <150> PRIOR APPLICATION NUMBER: US 60/080,588
18 <151> PRIOR FILING DATE: 1998-04-03
20 <150> PRIOR APPLICATION NUMBER: US 60/070,153
21 <151> PRIOR FILING DATE: 1997-12-31
23 <160> NUMBER OF SEQ ID NOS: 13
25 <170> SOFTWARE: PatentIn Ver. 2.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 17
29 <212> TYPE: PRT
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Description of Artificial Sequence:generic
alpha-conotoxin sequence
36 <220> FEATURE:
37 <221> NAME/KEY: PEPTIDE
38 <222> LOCATION: (1)..(6)
39 <223> OTHER INFORMATION: Xaa at residue 1 is des-Xaa, Tyr, mono-iodo-Tyr or
40 di-iodo-Tyr; Xaa at residue 2 is any amino acid;
41 Xaa at residue 5 is any amino acid; Xaa at residue
42 6 is any amino acid.
44 <220> FEATURE:
45 <221> NAME/KEY: PEPTIDE
46 <222> LOCATION: (8)..(12)
47 <223> OTHER INFORMATION: Xaa at residues 8, 10, 11 and 12 may be any amino
48 acid; Xaa at residues 13, 14, 15 and 16 may be
49 des-Xaa or any amino acid.
51 <400> SEQUENCE: 1 / / / / / / / /
52 Xaa Xaa Cys Cys Xaa Xaa Pro Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
53 1 5 10 15
55 Cys
59 <210> SEQ ID NO: 2
60 <211> LENGTH: 16
61 <212> TYPE: PRT
62 <213> ORGANISM: Conus magus
64 <400> SEQUENCE: 2
65 Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu His Ser Asn Leu Cys
66 1 5 10 15

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69 <210> SEQ ID NO: 3
70 <211> LENGTH: 17
71 <212> TYPE: PRT
72 <213> ORGANISM: Artificial Sequence
74 <220> FEATURE:
75 <223> OTHER INFORMATION: Description of Artificial Sequence:Tyr derivative
of C. magus MII
78 <400> SEQUENCE: 3
79 Tyr Gly Cys Cys Ser Asn Pro Val Cys His Leu Glu His Ser Asn Leu
80 1 5 10 15
82 Cys
86 <210> SEQ ID NO: 4
87 <211> LENGTH: 16
88 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
91 <220> FEATURE:
92 <223> OTHER INFORMATION: Description of Artificial Sequence:FAT derivative
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95 <400> SEQUENCE: 4
96 Gly Cys Cys Ser Asn Pro Val Cys Phe Ala Thr His Ser Asn Leu Cys
97 1 5 10 15
100 <210> SEQ ID NO: 5
101 <211> LENGTH: 16
102 <212> TYPE: PRT
103 <213> ORGANISM: Conus aulicus
105 <400> SEQUENCE: 5
106 Gly Cys Cys Ser Tyr Pro Pro Cys Phe Ala Thr Asn Ser Asp Tyr Cys
107 1 5 10 15
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 17
112 <212> TYPE: PRT
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence:Tyr derivative
of C. aulicus AuIA
119 <400> SEQUENCE: 6
120 Tyr Gly Cys Cys Ser Tyr Pro Pro Cys Phe Ala Thr Asn Ser Asp Tyr
121 1 5 10 15
123 Cys
127 <210> SEQ ID NO: 7
128 <211> LENGTH: 15
129 <212> TYPE: PRT
130 <213> ORGANISM: Conus aulicus
132 <400> SEQUENCE: 7
133 Gly Cys Cys Ser Tyr Pro Pro Cys Phe Ala Thr Asn Ser Asp Cys
134 1 5 10 15
137 <210> SEQ ID NO: 8
138 <211> LENGTH: 16
139 <212> TYPE: PRT

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140 <213> ORGANISM: Conus aulicus
142 <400> SEQUENCE: 8
143 Gly Cys Cys Ser Tyr Pro Pro Cys Phe Ala Thr Asn Ser Gly Tyr Cys
144 1 5 10 15
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 16
149 <212> TYPE: PRT
150 <213> ORGANISM: Conus purpurascens
152 <400> SEQUENCE: 9
153 Gly Cys Cys Ser Leu Pro Pro Cys Ala Ala Asn Asn Pro Asp Tyr Cys
154 1 5 10 15
157 <210> SEQ ID NO: 10
158 <211> LENGTH: 16
159 <212> TYPE: PRT
160 <213> ORGANISM: Artificial Sequence
162 <220> FEATURE:
163 <223> OTHER INFORMATION: Description of Artificial Sequence:A10L derivative
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166 <400> SEQUENCE: 10
167 Gly Cys Cys Ser Leu Pro Pro Cys Ala Leu Asn Asn Pro Asp Tyr Cys
168 1 5 10 15
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 16
173 <212> TYPE: PRT
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Description of Artificial Sequence:N11S derivative
of C. purpurascens PnIA
180 <400> SEQUENCE: 11
181 Gly Cys Cys Ser Leu Pro Pro Cys Ala Ala Ser Asn Pro Asp Tyr Cys
182 1 5 10 15
185 <210> SEQ ID NO: 12
186 <211> LENGTH: 16
187 <212> TYPE: PRT
188 <213> ORGANISM: Conus purpurascens
190 <400> SEQUENCE: 12
191 Gly Cys Cys Ser Leu Pro Pro Cys Ala Leu Ser Asn Pro Asp Tyr Cys
192 1 5 10 15
195 <210> SEQ ID NO: 13
196 <211> LENGTH: 12
197 <212> TYPE: PRT
198 <213> ORGANISM: Conus imperialis
200 <400> SEQUENCE: 13
201 Gly Cys Cys Ser Asp Pro Arg Cys Ala Trp Arg Cys
202 1 5 10

VERIFICATION SUMMARY

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L:14 M:270 C: Current Application Number differs, Replaced Application Number

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1